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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/649,536	08/26/2003	Andrew Jeremiah Burns	2003P12748US	5435
75	90 07/14/2005		EXAMINER	
Siemens Corpo	oration		HEINRICH,	SAMUEL M
Intellectual Prop	perty Department			
170 Wood Avenue South			ART UNIT	PAPER NUMBER
Iselin, NJ 088	30		1725	
			DATE MAIL ED: 07/14/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
4		10/649,536	BURNS ET AL.				
	Office Action Summary	Examiner	'Art Unit				
		Samuel M. Heinrich	1725				
	The MAILING DATE of this communicatio						
Period fo	or Reply		<i>p</i>				
THE - Extermination after - If the - If NO - Failure - Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI missions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ad patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a repion. a reply within the statutory minimum of thirty (period will apply and will expire SIX (6) MONTH statute, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this committed to the committed that the c	unication.			
Status	·	•		•			
1)	Responsive to communication(s) filed on	10 May 2005.					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)							
	closed in accordance with the practice un-						
Dispositi	on of Claims		•				
	Claim(s) <u>1-35</u> is/are pending in the application	ation					
	4a) Of the above claim(s) <u>18-35</u> is/are with						
	Claim(s) is/are allowed.	and with control of the control of t					
	Claim(s) <u>1-15</u> is/are rejected.						
	Claim(s) 16 and 17 is/are objected to.	•					
	Claim(s) are subject to restriction a	nd/or election requirement.		·			
Applicati	on Papers	•					
	•						
	The specification is objected to by the Exa		and a both the				
10/23	The drawing(s) filed on <u>26 August 2003</u> is/ Applicant may not request that any objection to						
	Replacement drawing sheet(s) including the co			. 4047.10			
11)	The oath or declaration is objected to by the						
		e Examiner. Note the attached C	Jilice Action or form PTO-	152.			
Priority u	nder 35 U.S.C. § 119						
12) 🔲 .	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a)[☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docur						
	2. Certified copies of the priority docur	The state of the s					
	3. Copies of the certified copies of the		ceived in this National Sta	ge			
+ 0	application from the International Bu						
- 8	ee the attached detailed Office action for a	a list of the certified copies not re	ceived.				
Attachment	(s)						
	e of References Cited (PTO-892)	4) Interview Sum	nmary (PTO-413)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s)/N	/lail Date				
3) 🔀 Inform Paper	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date <u>08/26/2003</u> .	B/08) 5) Notice of Info 6) Other:	rmal Patent Application (PTO-152	2)			
S. Patent and Tr		ce Action Summary		704065			
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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-17, in the reply filed on May 10, 2005 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5, 10, and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfla et al in view of US Patent Publication 20010037823A1 to Middelman et al. Wolfla et al disclose laser cutting a gap into a ceramic which has been deposited onto a substrate. Wolfla et al do not describe the particular claimed gap dimension. Middelman et al describe well known laser cutting of

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a gap of 2 to 200 microns. Size is not a patentable feature. Forming of the instant claimed gap dimension with a laser would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the gap dimension has been well known in the art. Wolfla et al form a gap which does not extend through the entire thickness of the ceramic. Fiber optic cable laser transmission is well known in the art and its use would have been obvious for transferring the beam to the workpiece. The intended use of the gap as a fluid channel does not impart patentability to the article manufacturing process. The spacing of gaps is a matter of design choice because plural gap forming with a laser in ceramic material has been known in the art for well over a decade.

Claims 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfla et al in view of US Patent Publication 20010037823A1 to Middelman et al as applied to claim 1 above, and further in view of JP2001144339A. JP2001144339A discloses well known forming of first and second gaps at first and second depths. The formation of different shaped gaps in Wolfla et al in view of Middelman et al would have been obvious depending on the desired size of the gaps.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wolfla et al in view of Middelman et al as applied to claim 1 above, and further in view of USPN 4,684,780 to Cantello et al. Cantello et al disclose a well known lens. The use of a particular lens spacing would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the lens location isolates it from the workpiece and protects it.

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Allowable Subject Matter

Claims 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to laser cutting.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner

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SMH